



We are looking to support our rapidly growing team as soon as possible:

PhD Student (f/m/x) in experimental oncology

Department of Experimental Pediatric Oncology / Department of Translational Genomics



TV-L: 25 h/week (64,94%)



limited for 3 years according to WissZeitVG (Third-party funded project)



Your salary will be based on TV-L

Your tasks

- Conduct animal experiments to analyse the significance of telomere maintenance mechanisms in small cell lung cancer (SCLC), including cell biological and bioinformatic characterization (RNA-Seq, single cell RNA-Seq)
- Development/generation of new mouse lines and investigation of tumor development
- Close scientific collaboration in an international team under supervision of the group leader
- Analyses of the collected data including storage and statistical evaluation
- Publication of the results
- Participation in scientific conferences, presentation of original data (poster/oral presentations)

Your profile

- Master's degree in Biology, Cell Biology, or Biochemistry (with very good to excellent grades)
- Experience with techniques such as rodent models, cell culture, immunohistochemistry, microscopy and image analysis
- Strong motivation to advance research in translational oncology
- Proficiency in English, both written and spoken
- Excellent organizational skills, a proactive attitude, enthusiasm, and a willingness to learn

Your future with us

We are one of the leading university hospitals in Germany and network research, teaching and health care at the highest level. That's why many things are a lot bigger for us: the spectrum of exciting development opportunities. The limitless openness with which specialists from all over the world work together here. Or our commitment as an employer to support all employees as best we can in reconciling their job with their goals and life situations.

This is the University Hospital of Cologne: Everything but ordinary.

Your future in detail

The [Department of Experimental Pediatric Oncology](https://www.sfb1399.de/) (lead by Prof. Matthias Fischer) at the University Hospital of Cologne conducts research into genetic changes in pediatric and adult cancer (including SCLC) with the aim of developing new approaches for diagnostics and therapy. Our projects have a strong multidisciplinary focus and involve a wide range of national and international collaborations. Further information about the CRC:

<https://www.sfb1399.de/>

You will join the recently established junior research group focusing on cell death mechanisms involved in spontaneous tumor regression. Activation of telomere

Our offer

- **Everything but ordinary:** You can expect a secure job in a challenging, innovative environment – including company pension schemes and regular working hours without business trips.
- **Work-life balance:** Whether full-time or part-time, with or without children – with numerous support options, we will find the right path together.
- **Team spirit in R(h)ine culture:** You will be warmly welcomed by an interdisciplinary team that values mutual respect and helpfulness.
- **Strong perspectives:** We offer extensive training opportunities – so you can continuously grow and set new goals.

maintenance is a key event in malignant transformation and most frequently conferred by induction of the reverse transcriptase telomerase encoded by *TERT*. In previous studies, we demonstrated that spontaneous regression and maturation occur frequently in *Tert*-deficient tumors, however, the mechanisms underlying these phenomena have remained uncertain. In our current research focus, we will investigate the molecular mechanisms underlying spontaneous regression in SCLC, with a special focus on cell death mechanisms. Using genetically engineered mouse models and in-depth comparison of murine and human tumors, we will analyse these processes.

Applications from female candidates are expressly welcome and will be given priority in the event of equal suitability, competence and professional performance. People with disabilities are welcome to apply and will be treated preferentially in the event of equal suitability and qualification.

Contact

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Application deadline: 08.06.2025

Job-ID: 4o6n3le7

Jetzt bewerben

We look forward to receiving your application and getting to know you!